First Nations Water Rights in British Columbia

A Historical Summary of the rights of the Soowahlie First Nation

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MINISTRY OF ENVIRONMENT, LANDS and PARKS
WATER MANAGEMENT BRANCH

FIRST NATIONS WATER RIGHTS IN BRITISH COLUMBIA:

A Historical Summary of the rights of the Soowahlie First Nation

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Gary Robinson
Project Manager
Water Management Branch

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FIRST NATIONS WATER RIGHTS REPORT

BAND:	Soowahlie Band		
ADDRESS:	4070 Soowahlie Road, Cultus Lake, B.C., V0X 1H0		
CHIEF:	Chief Bruce Sam		
PHONE:	858-4603	**FAX:**	858-2350
AFFILIATION:	Sto:lo Tribal Council		

LOCATION:

The Soowahlie Band occupies one reserve in an area located to the south of the City of Chilliwack and northeast of Cultus Lake, in the lower mainland region of the Province. Water rights have been issued on the reserve, Soowahlie 14. The reserve is comprised of 460.8 hectares.

The most recent population compiled by the Ministry of Finance indicate that the Soowahlie Band's total population, including registered and non-registered members, living on- and off-reserve, is 259.

Soowahlie 14 is located in the Coastal Western Hemlock Biogeoclimatic Zone. The reserve lies at sea level, and has a climate in which average daily temperature range from low of 0 degrees centigrade in January, to a highs of 20 degrees centigrade in July. Annual rainfall for the area averages between 100 and 250 centimeters annually.

Water courses of significance include:

- **Chilliwack River**: flows east through Soowahlie Reserve No. 14, merging with the Vedder River at Vedder Crossing.

WATER ALLOCATIONS:

There are no records of allocations made by either the Indian Reserve Commission, by Order-in-Council of the Lieutenant Governor in Council, or by Order of the Board of Investigation. Additionally, there have been no actions to amend, cancel or record as abandoned, licenced rights pursuant to provisions contained in the *Water Act*.

The water rights of the Soowahlie First Nation have been determined by one action of government over the years:

1) The issue of water licences in response to Federal Government applications requesting authorization for the use of water on reserve lands.

HISTORY, CURRENT STATUS AND NOTES:

The history of water rights, the current status of rights, and notes for the Soowahlie Band with respect to Chilliwack River are as follows:

Chilliwack River:

History:

Apr 15, 1966 In response to an application filed by the Indian Affairs Branch on behalf of the Soowahlie Band, the Comptroller of Water Rights issued Conditional Water Licence 30915. The licence has a precedence date of February 8, 1966 and authorizes the diversion of the total flow of water from Chilliwack Creek, for land improvement purpose. The land improvement project of the licensee, and the appurtenant land, is located on Soowahlie Reserve No. 14, Group 2, New Westminster District.

In support of Conditional Water Licence 30915, Permit Over Crown Lands 6087 was issued to the Soowahlie Band. The permit authorizes the occupation of Crown Land for the construction and maintenance of works required under Conditional Licence 30915.

Current Status:

There are currently seven licences active on Chilliwack River, one of which is held by the Soowahlie Band. Of the licences:

- 4 authorize the use of water for conservation - use of water purpose, ranging from .27 to 75 cubic feet per second.
- 1 authorizes the use of 500 gallons of water per day for domestic purpose.
- 1 authorizes the use of the total flow of water for land improvement purpose.

- 1 authorizes the use of 10 cubic feet per second for conservation - construction of works purpose.

The Soowahlie Band holds Conditional Water Licence 30915 on Chilliwack River. It is first in priority and is for the use and benefit of the Soowahlie Band.

The Water Survey of Canada operated station 08MH001 on Chilliwack River at Vedder Crossing from 1911 to 1990. During this period, the station recorded a minimum daily discharge of 7.93 m^3/sec (272.11 cubic feet/sec) on November 30, 1952, and a maximum daily discharge of 765 m^3/sec (27,015.21 cubic feet/sec) on December 29, 1917. Mean monthly discharges averaged lows in the order of 35.6 m^3/sec in September, and rose highs of 140 m^3/sec in June.

Notes:

1. There is no additional information with respect to the rights of the Soowahlie Band on Chilliwack River.

OTHER INFORMATION:

Groundwater Records:

A review of well records maintained by the MELP - Groundwater Section found that four wells have been reported on Soowahlie Reserve No. 14. The wells are reported to yield large amounts of water, ranging from 6 gallons per minute to 720 gallons per minute. The extent to which the wells are currently utilized is unknown. Further details can be found in Appendix 6.

As the provision of well information to the Groundwater Section is voluntary, this review should not be assumed to be complete.

Alternate Water Sources:

At this time the potential for water supply from a municipal system is limited as there are none in the reasonable vicinity of the Soowahlie Reserve.

The proximity of Cultus Lake to the Soowahlie Reserve No. 14 makes it a potential source of water for other purposes.

Water Protection Records:

MELP - Water Protection Section records indicate that a 2.61 kilometre dyke is in place on Chilliwack River, within Soowahlie Reserve No. 14. The dyke is reportedly maintained by the Soowahlie Band.

Summary of Water Rights Records								
Soowahlie Band								
Water Source	Priority Date	Reserve Name	File No.	Document Type	Status	Superceded By	Licence PUC/MOD & OIC Allotments	Comments
Chilliwack River	1966/02/08	Soowahlie 14		CL 30915	Current		0 TF/LDIMP	

WATER RESOURCES SERVICE
WATER RIGHTS BRANCH

DEPARTMENT OF LANDS, FORESTS,
AND WATER RESOURCES

THE PROVINCE OF BRITISH COLUMBIA—WATER ACT

CONDITIONAL WATER LICENCE

Indian Affairs Branch,
Department of Citizenship and
Immigration of Ottawa, Ontario

is/are hereby authorized to divert water as follows:—

(a) The source(s) of the water-supply is/are Chilliwack River.

(b) The point(s) of diversion is/are located as shown on the attached plan.

(c) The date from which this licence shall have precedence is 8th February, 1966.

(d) The purpose for which the water is to be used is land improvement.

(e) ~~The maximum quantity of water which may be~~

~~and such additional~~ quantity

~~as the Engineer may from time to time determine should be allowed for losses.~~

(f) The period of the year during which the water may be diverted is the whole year.

(g) ~~The land upon which the water is to be used and to which~~ This licence is appurtenant ~~is~~ to the land improvement project of the licensee on Indian Reserve No. 14, Soowahlie, Group 2, New Westminster District.

(h) The works authorized to be constructed are wing dam (12 feet high x 225 feet long),

and they shall be located approximately as shown on the attached plan.

(i) The construction of the said works has been commenced, and shall be completed and the water beneficially diverted on or before the 31st day of December, 1967.

14
5732
R.M.

H. D. DeBeck,
Comptroller of Water Rights.

File No. 0265885 Date issued: 15 April 1966 Conditional Licence No. 30915

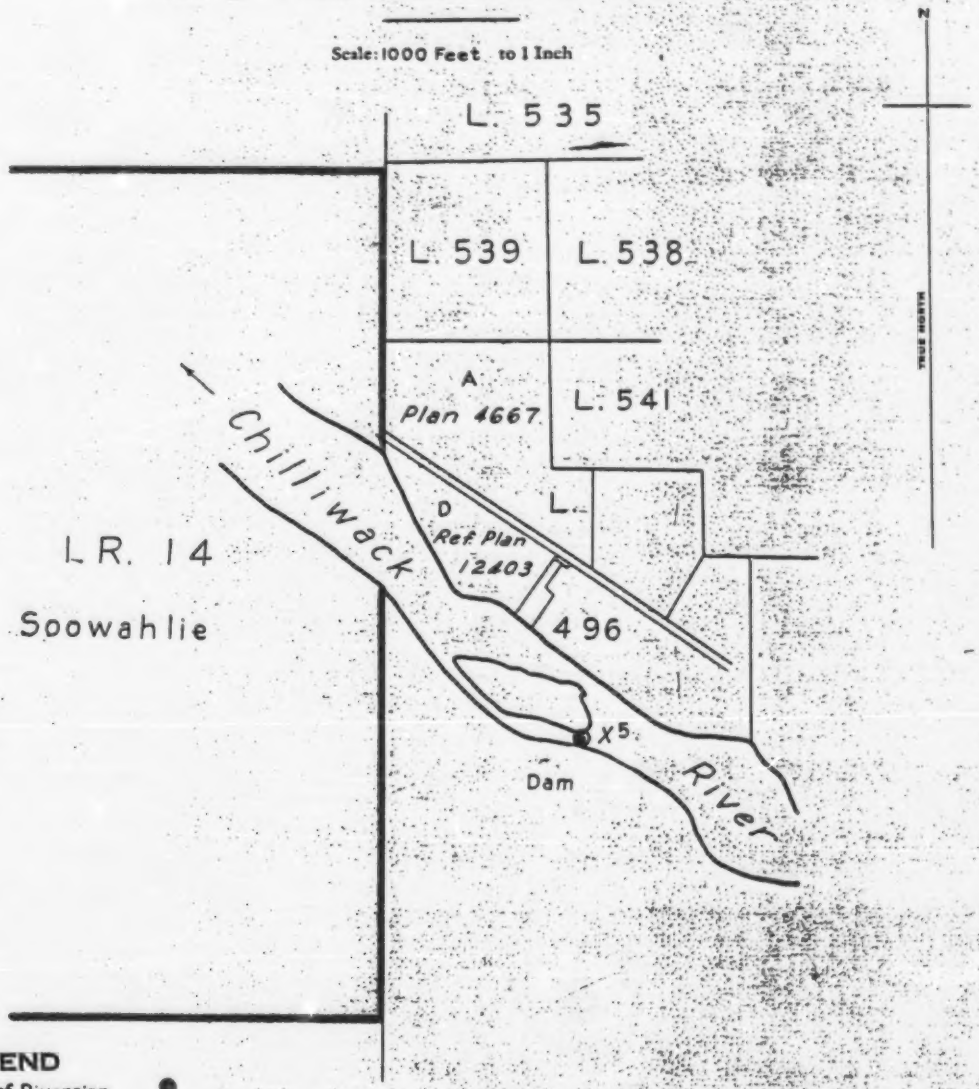
5M-365-3319

British Columbia

NEW WESTMINSTER WATER DISTRICT

GP. 2 , NEW WESTMINSTER DISTRICT

Scale: 1000 Feet to 1 Inch



LEGEND

Point of Diversion ●
W.R. Map 5732 C-1
Right of Way ○

The boundaries of the land to which this licence is appurtenant are shown thus: ▬▬▬

Signature

Date April 15, 1966

EXHIBIT "A" For R/W See Ref. Map 92 H/s.w. (A-1)

CL 30915
File 0265885
Permit No. 6087

Stream Register Report Water Licence Information System

Report Requested By : CROCHA
Date Report Requested : 1996/09/18 09:17
Report Sorted By : Source Gazetted - Priority Date - Licence Number
Selection Criteria
START POINT : 804601 - Chilliwack Lake on Chilliwack River
END POINT : 805621 - Chilliwack River left of Vedder River

Priority YYYY/MM/DD	Licence Number	File Number	Appurtenancy	Licensee	POC	Quantity/Units	Term Start	Term End	Licence Comments	Process Status
Source		MR Map	POD	SEO POD Comments					Proc	
1966/02/08	C030815	0265885	IR 014 SOOWAHLIE GP 2 HWD	SOOWAHLIE INDIAN BAND 987-572-8051 PO BOX 696 VEDDER CROSSING BC V4R1E0	LDINP	0.00 TF	Jan 01	Dec 31		
Chilliwack River		MR5732C-1		X5 N					20C HW - CHILLIWACK	
1968/04/26	C106454	0277949	CONSERVATION PROJECT OF THE LICENSEE WITH UCL TP 2 R 27 W6H HWD COVERED BY MAP REFERNCE 0260567	FISHERIES & OCEANS CANADA 400 - 555 W HASTINGS ST VANCOUVER BC V6B5G3	COHUS	40.00 CS	Jan 01	Dec 31	SPAWNING CHANNEL	
Chilliwack River		MR92.H.003.3.6		A N					20C HW - CHILLIWACK	
1970/12/16	C053426	0364873	PROJECT OF LICENSEE WITHIN BLK A OF SEC 32 TP 1 R 28 WEH	FISHERIES & OCEANS CANADA 400 - 555 W HASTINGS ST VANCOUVER BC V6B5G3	COHUS	75.00 CS	Jan 01	Dec 31		
Chilliwack River		MR92.H.002.4.3		C N					20C HW - CHILLIWACK	
Chilliwack River		MR92.H.002.4.3		D N						
1987/02/06	C060230	2000733	DL 520 GP 2 HWD	CORRECTIONS BRANCH C/O COPPER CREEK CAMP BOX 365 CHILLIWACK BC V2P6J6	COHUS	0.27 CS	Jan 01	Dec 31		
Chilliwack River		MR92.H.003.3.3		A N					20C HW - CHILLIWACK	
1991/03/01	C102363	2001469	BLK A SEC 32 TP 1 R 28 WEH YDYD	FISHERIES & OCEANS CANADA 400 - 555 W HASTINGS ST VANCOUVER BC V6B5G3	COHUS	25.00 CS	Jan 01	Dec 31		
Chilliwack River		MR92.H.002.4.3		C N					20C HW - CHILLIWACK	
Chilliwack River		MR92.H.002.4.3		D N						

Priority YYYY/MM/DD	Licence File Number	Appurtenancy Number	Licensee	PUC	Quantity/Units	Term Start	Term End	Licence Comments	Process Status
Source	WR Map	POD	RED POD Comments					Prec	
1996/02/20	2107709	2001803	L 17 OF SEC 1 TP 2 R 27 W6N YDYD PLAN 36299	DOM	500.00 GD	Jan 01	Dec 31		APP APPLIC-CLEARED
			PARKER DON E & GLORIA M 1302 227 ST RR 9 LANGLEY BC V1A4H5						
Chilliwack River		WR92.H.003.4.3	C N					20C HW - CHILLIWACK	
1996/03/05	2110704	2002160	CONSERVATION PROJECT WITHIN LS 16 SEC 2 TP 2 R 27 WYN	COMMX	10.00 CS	Jan 01	Dec 31		APP APPLIC-CLEARED
			FISHERIES & OCEANS CANADA 400 - 555 W HASTINGS ST VANCOUVER BC V6B5G3						
Chilliwack River		WR92.H.013.1.2	S N					20C HW - CHILLIWACK	

---------- Total of 7 Licences Reported ----------

PROVINCE OF
BRITISH COLUMBIA

DEPARTMENT OF LANDS, FORESTS,
AND WATER RESOURCES

PERMIT UNDER THE WATER ACT AUTHORIZING THE OCCUPATION OF CROWN LAND

Indian Affairs Branch
Department of Citizenship
and Immigration of OTTAWA, Ontario

the holder(s) of Conditional Water Licence 30915 authorizing

the diversion of water of Chilliwack River is/are hereby

authorized to occupy Crown land by constructing and maintaining thereon the works authorized by the said water licence and any licences which may be issued in substitution thereof.

(*a*) The Crown land which is authorized to be occupied under this permit is a portion of unsurveyed foreshore and land covered by water situated in Chilliwack River, Group 2, New Westminster District.

(*b*) The approximate dimensions of the Crown land authorized to be occupied under this permit are

100 feet ± in length and 15 feet in width, having an area of 0.03 acre ±, located approximately as shown on the plan attached to the said water licence.

(*c*) ~~Subject to the payment of royalty, stumpage, and other compensation as provided under Condition 5, the permittee is authorized to~~

(*d*) The annual rental for this permit is $ 10.00 , which is subject to review and revision at any time at the discretion of the Crown.

(*e*) This permit is appurtenant to the land to which the aforesaid water licence is appurtenant.

(*f*) The conditions relative to the rights granted under this permit are printed on the back of this form.

Deputy Minister of Lands.

File No. 0265885

Ref. Map 92 H/S.W.(A-1)

W.R. Map 5732C Date issued: 15 April 1966 Permit No. 6087

W.R.B. 12—5M-865-7054

CONDITIONS RELATIVE TO THE RIGHTS GRANTED UNDER THIS PERMIT

1. This permit is issued under the *Water Act*, and the rights hereby granted are subject at all times to the provisions of that Act and all Acts passed in amendment or substitution thereof and to all regulations from time to time made under any such Act.

2. There is reserved to the Crown the right to grant to other persons permits to occupy the land affected by this permit without compensation to the permittee or his successors in title.

3. In the event of any dispute arising at any time between the permittee and any owner of land adjacent to the land affected by this permit with respect to the area or boundaries of the land so affected, the licensee shall at his own expense, when so directed by the Deputy Minister of Lands, have the said land surveyed by a duly qualified surveyor, and shall likewise file with the Department of Lands, Forests, and Water Resources at Victoria, B.C., a plan showing the result of the survey.

4. This permit and the rights granted hereunder are subject always to compliance by the permittee with the terms of his water licence, and if the rights granted under the said licence should at any time be suspended or terminated the rights granted under this permit are thereupon likewise suspended or terminated.

5. The amount of stumpage, royalty, and (or) compensation payable to the Crown by the permittee in respect of trees, including merchantable or young growth, cut, removed, damaged, or destroyed by the permittee, shall be the sum or sums fixed by the Forest Service of the Province of British Columbia.

CHILLIWACK RIVER AT VEDDER CROSSING - STATION NO. 08MH001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
	---	---	---	---	---	---	---	---	---	---	---	41.4	---	1911
	42.8	53.0	24.5	27.8	130	185	86.8	38.3	27.1	25.3	66.1	34.9	61.8	1912
	24.2	34.4	30.4	32.6	112	230	162	59.5	45.5	73.5	77.8	44.1	85.4	1913
1914	121	33.1	63.7	88.0	116	113	89.0	37.4	37.2	42.7	87.1	38.0	72.7	1914
1915	29.4	24.1	38.2	94.9	77.7	65.7	45.3	30.2	24.4	60.9	69.3	61.9	51.9	1915
1916	---	---	---	---	---	---	---	---	---	23.0	38.1	26.1	---	1916
1917	27.0	35.8	25.9	33.2	87.8	152	141	55.5	29.5	31.6	58.7	158	69.9	1917
1918	---	---	---	---	94.3	148	71.0	45.8	31.4	41.8	42.8	84.7	---	1918
1919	51.0	39.7	31.6	85.0	153	150	160	64.2	34.6	20.5	83.5	65.5	78.4	1919
1920	82.8	64.6	32.5	29.1	71.3	121	125	40.7	66.5	118	53.0	49.4	71.2	1920
1921	59.3	71.5	47.2	40.3	103	163	82.3	40.2	45.2	49.1	54.8	119	72.8	1921
1922	32.1	18.8	16.5	32.9	136	229	82.0	36.7	36.1	47.6	38.4	68.9	64.8	1922
1923	89.0	30.2	30.8	58.4	125	153	104	27.6	21.9	20.7	29.3	46.1	61.6	1923
1924	29.9	137	41.2	34.2	161	91.7	58.7	32.5	33.0	63.0	85.9	122	72.3	1924
1925	54.3	82.3	45.7	88.6	180	142	86.0	44.7	27.2	25.1	29.8	79.1	73.7	1925
1926	50.1	44.6	45.7	63.1	97.1	182.2	92.9	22.2	18.6	48.4	51.4	54.4	68.3	1926
1927	42.5	25.6	34.9	42.6	97.3	186	76.8	40.5	59.0	98.3	98.3	82.0	73.5	1927
1928	124	29.8	41.2	35.9	158	115	57.4	20.6	14.9	39.9	24.7	24.7	57.4	1928
1929	24.6	22.1	23.8	28.7	111	137	86.1	29.3	24.8	28.3	21.2	30.1	45.7	1929
1930	27.0	90.2	49.3	92.7	85.1	92.8	59.3	31.6	26.3	43.2	44.3	33.7	55.9	1930
1931	74.3	67.2	61.5	68.5	---	---	---	---	---	---	---	---	---	1931
1951	---	---	---	---	---	115	78.4	37.5	24.4	52.9	43.8	38.6	---	1951
1952	21.9	45.5	28.3	67.7	121	102	79.5	36.9	18.7	13.5	13.4	19.3	47.3	1952
1953	89.8	75.3	33.2	49.3	116	124	126	69.7	54.5	90.9	97.6	99.7	85.6	1953
1954	67.5	89.9	63.4	60.1	141	170	195	126	98.3	71.5	113	65.3	105	1954
1955	44.4	35.7	23.8	44.0	80.1	188	152	63.0	31.1	68.2	93.2	49.6	72.9	1955
1956	36.0	23.1	24.3	62.3	140	152	118	47.4	36.6	90.7	69.9	97.0	74.5	1956
1957	41.2	36.1	55.2	60.1	154	165	74.0	42.0	29.6	26.2	76.9	37.8	59.8	1957
1958	56.8	35.2	40.6	46.8	130	104	45.2	25.4	31.2	69.4	70.8	94.7	64.0	1958
1959	70.6	32.3	32.9	72.3	91.5	135	110	43.6	68.8	74.1	82.8	49.0	72.1	1959
1960	22.7	37.6	22.2	47.3	65.4	105	74.0	35.1	28.0	36.9	56.4	62.0	49.4	1960
1961	74.0	75.1	47.0	55.2	108	184	95.5	57.7	27.9	49.8	45.7	44.3	71.9	1961
1962	88.9	70.4	22.9	56.4	73.0	128	87.4	61.3	35.0	45.0	69.9	91.8	69.2	1962
1963	54.6	77.4	41.3	41.2	70.8	94.5	67.5	38.9	31.7	58.5	102	87.0	63.6	1963
1964	69.5	40.1	32.9	46.0	82.7	189	148	73.1	55.1	60.1	46.6	52.4	74.7	1964
1965	47.4	75.4	45.0	51.8	96.9	125	74.3	41.0	22.9	41.4	73.0	55.4	62.3	1965
1966	38.5	27.1	37.9	72.6	109	129	110	47.6	26.9	53.2	53.4	120	69.0	1966
1967	73.0	63.5	40.2	33.3	106	213	104	49.1	27.7	86.9	88.5	79.4	80.4	1967
1968	129	85.7	76.5	46.6	101	151	100	46.2	60.0	45.5	64.3	54.6	80.1	1968
	49.7	26.2	30.7	67.1	160	152	62.6	30.2	47.8	47.9	52.8	44.8	64.4	1969
1970	44.5	50.3	38.2	45.8	74.0	129	50.7	26.0	26.8	25.1	35.4	37.0	48.5	1970
1971	69.5	106	42.7	53.1	154	157	147	69.9	36.4	47.6	61.2	39.4	81.3	1971
1972	58.1	52.4	126	67.7	172	223	181	80.6	44.8	32.8	31.8	73.5	93.9	1972
1973	58.1	25.0	56.7	31.0	101	167	72.0	33.4	20.0	41.8	57.8	75.7	54.2	1973
1974	85.7	51.4	56.2	64.7	109	243	171	67.8	40.1	24.5	48.1	57.6	86.7	1974
1975	58.3	33.4	36.5	29.2	102	165	132	48.0	30.8	65.7	111	164	81.7	1975
1976	92.3	53.2	32.0	50.1	138	141	147	98.2	62.7	29.1	33.5	47.1	77.2	1976
1977	52.5	39.7	31.0	58.8	73.3	105	51.7	40.1	27.6	29.7	76.4	103	57.5	1977
1978	43.5	38.5	48.2	52.6	73.3	119	77.8	43.5	66.4	35.5	56.5	24.6	56.6	1978
1979	15.3	24.9	66.1	48.8	104	87.5	60.4	32.7	33.7	27.4	26.3	134	55.4	1979
1980	39.1	50.8	47.4	69.1	113	98.4	69.7	35.1	35.1	27.1	77.3	132	66.2	1980
1981	---	73.0	45.8	59.5	85.9	107	77.7	46.6	28.0	41.3	46.6	45.1	---	1981
1982	38.5	58.3	38.0	35.0	72.6	158	87.3	43.8	27.1	30.8	30.4	43.4	55.1	1982
1983	72.8	53.7	54.2	45.4	101	121	117	39.1	27.7	21.0	67.4	34.7	63.0	1983
1984	---	56.1	49.6	45.5	73.5	147	105	46.0	37.4	41.2	60.0	36.2	---	1984
1985	29.7	24.8	21.0	71.1	128	166	68.5	29.3	21.7	63.5	85.7	25.5	61.2	1985
1986	59.7	73.1	70.2	59.4	104	124	70.3	32.9	32.4	28.7	84.7	44.1	65.0	1986
1987	54.8	40.4	62.6	77.8	142	87.5	55.5	25.6	18.9	12.1	15.6	29.9	52.3	1987
1988	23.7	31.8	42.1	94.5	124	121	73.6	32.0	23.9	51.7	79.4	55.8	62.8	1988
1989	48.3	38.6	37.8	98.4	112	125	61.0	38.0	20.1	27.2	---	95.1	---	1989
1990	51.3	51.0	45.5	101	94.3	130	89.5	36.7	23.6	89.3	---	80.4	---	1990
MEAN	55.2	51.2	42.2	56.6	110	140	94.0	45.5	35.6	47.0	58.9	64.8	67.3	MEAN

LOCATION - LAT 49 05 50 N DRAINAGE AREA, 1 230 km²
LONG 121 57 45 W NATURAL FLOW

CHILLIWACK RIVER AT VEDDER CROSSING - STATION NO. 08MH001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1911	---	---	---	---	1911
1912	---	297 ON JUN 20	20.7 ON OCT 15	1 950 000	1912
1913	---	345 ON JUN 02	23.1 ON FEB 13	2 690 000	1913
1914	---	566 ON JAN 06	24.1 ON SEP 06	2 290 000	1914
1915	---	265 ON OCT 28	22.7 ON JAN 29	1 640 000	1915
1916	---	---	---	---	1916
1917	---	765 ON DEC 29 *	22.7 ON APR 04	2 200 000	1917
1918	---	---	---	---	1918
1919	---	286E ON MAY 23	16.7 ON DEC 13	2 470 000	1919
1920	---	300 ON OCT 05	21.2 ON SEP 09	2 250 000	1920
1921	---	538 ON DEC 12	11.6 ON OCT 13	2 300 000	1921
1922	---	343 ON JUN 03	14.6 ON MAR 15	2 040 000	1922
1923	---	264 ON JUN 09	17.4 ON OCT 12	1 940 000	1923
1924	---	498 ON FEB 12	18.7 ON JAN 05	2 290 000	1924
1925	---	328 ON MAY 20	19.0 ON OCT 22	2 320 000	1925
1926	---	125 ON DEC 10	15.1 ON SEP 28	1 460 000	1926
1927	---	317 ON DEC 02	11.9 ON FEB 19	2 320 000	1927
1928	---	487 ON JAN 12	13.0 ON SEP 29	1 810 000	1928
1929	---	174 ON MAY 22	18.3 ON OCT 01	1 440 000	1929
1930	---	306 ON FEB 18	21.3 ON JAN 29	1 760 000	1930
1931	---	---	---	---	1931
1951	---	---	---	---	1951
1952	---	192 ON MAY 17	7.93 ON NOV 30 *	1 500 000	1952
1953	---	351 ON OCT 31	19.1 ON JAN 01	2 700 000	1953
1954	---	300 ON NOV 22	34.0 ON JAN 30	3 320 000	1954
1955	---	450 ON NOV 03	20.3 ON MAR 26	2 300 000	1955
1956	---	275 ON JUN 10	19.8 ON MAR 18	2 360 000	1956
1957	---	197 ON MAY 07	18.0 ON OCT 22	1 890 000	1957
1958	---	249 ON OCT 10	18.7 ON SEP 13	2 020 000	1958
1959	---	282 ON APR 29	22.5 ON FEB 24	2 270 000	1959
1960	---	186 ON JUN 02	11.0 ON JAN 22	1 560 000	1960
1961	---	264 ON JAN 15	15.7 ON SEP 27	2 270 000	1961
1962	---	263 ON JAN 03	19.7 ON MAR 16	2 180 000	1962
1963	---	368 ON NOV 26	24.8 ON OCT 11	2 010 000	1963
1964	---	251 ON JUN 10	27.2 ON DEC 31	2 360 000	1964
1965	---	176 ON JUN 11	17.4 ON OCT 02	1 960 000	1965
1966	---	328 ON DEC 16	20.3 ON OCT 18	2 180 000	1966
1967	---	340 ON OCT 31	20.4 ON SEP 28	2 540 000	1967
1968	---	436A ON JUN 02	21.4 A ON OCT 05	2 530 000	1968
1969	281 AT 17:51 PST ON MAY 24	271 ON MAY 24	20.8 ON MAR 12	2 030 000	1969
1970	259 AT 23:00 PST ON JUN 03	217 ON JUN 03	16.1 ON SEP 16	1 530 000	1970
1971	453 AT 20:30 PST ON JAN 30	357 ON JAN 31	23.4 ON JAN 03	2 570 000	1971
1972	428 AT 21:30 PST ON JUL 12	360 ON JUN 05	18.4 ON DEC 15	2 970 000	1972
1973	293 AT 12:20 PST ON OCT 28	187 ON MAY 18	17.2 ON OCT 10	1 710 000	1973
1974	385 AT 01:16 PST ON JUN 19	362 ON JUN 19	20.8 ON OCT 25	2 730 000	1974
1975	787 AT 00:14 PST ON DEC 03	530 ON DEC 03	22.9 ON OCT 02	2 580 000	1975
1976	282 AT 17:06 PST ON JUN 19	269 ON JUN 19	21.4 ON NOV 14	2 440 000	1976
1977	461 AT 09:52 PST ON JAN 18	289 ON JAN 18	16.4 ON OCT 22	1 810 000	1977
1978	762 AT 21:13 PST ON NOV 07	249 ON NOV 07	16.4 B ON DEC 31	1 780 000	1978
1979	781 AT 22:11 PST ON DEC 17	447 ON DEC 18	12.8 ON FEB 01	1 750 000	1979
1980	856 AT 11:19 PST ON DEC 26 *	533 ON DEC 26	21.3 ON OCT 31	2 090 000	1980
1981	220 AT 11:51 PST ON FEB 19	175 ON FEB 19	22.3 ON SEP 14	---	1981
1982	395E AT 19:09 PST ON DEC 03	280E ON JUN 18	18.5 E ON OCT 16	1 740 000	1982
1983	414 AT 04:24 PST ON JUL 12	313 ON JUL 14	15.5 ON OCT 16	1 990 000	1983
1984	---	---	23.3 ON OCT 03	---	1984
1985	428E AT 13:18 PST ON OCT 27	320E ON OCT 27	15.3 A ON OCT 09	1 930 000	1985
1986	767E AT 17:37 PST ON NOV 23	349E ON NOV 23	14.5 ON OCT 23	2 050 000	1986
1987	404 AT 03:57 PST ON MAY 14	299 ON MAY 14	10.1 ON NOV 09	1 650 000	1987
1988	328 AT 23:12 PST ON NOV 05	250 ON MAY 13	14.1 ON JAN 09	1 990 000	1988
1989	---	---	13.8 ON OCT 09	---	1989
1990	---	---	17.4 ON SEP 30	---	1990
				2 120 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

CHILLIWACK RIVER BELOW SLESSE CREEK - STATION NO. 08MH055

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1956	---	---	---	---	---	---	---	---	---	---	---	55.3	---	1956
1957	21.1	16.9	32.2	34.2	121	88.4	50.5	34.2	25.0	22.7	24.0	27.8	41.7	1957
1958	35.9	32.1	28.4	31.8	101	71.2	31.2	19.0	22.5	43.5	43.9	61.2	43.5	1958
1959	40.1	20.0	20.6	45.8	88.9	122	99.6	44.9	59.1	64.1	66.8	37.6	59.3	1959
1960	17.2	28.2	18.6	40.6	54.6	94.7	65.4	30.6	23.3	31.2	39.2	39.7	40.2	1960
1961	45.6	54.8	32.0	38.2	74.4	134	69.4	33.3	22.9	33.2	30.3	28.9	50.3	1961
1962	38.2	47.1	16.8	41.0	58.6	128	69.8	45.8	25.4	32.8	---	---	---	1962
MEAN	37.3	33.2	24.8	38.6	83.1	106	64.3	34.6	29.7	37.9	40.8	41.7	47.0	MEAN

LOCATION - LAT 49 04 54 N, LONG 121 43 14 W DRAINAGE AREA, 860 km^2, NATURAL FLOW

WELL4600 Production Operator is SKILLEEN

MINISTRY OF ENVIRONMENT, LANDS & PARKS

Water Rights Information System

Summary Report (with legal descriptions and old coordinates)

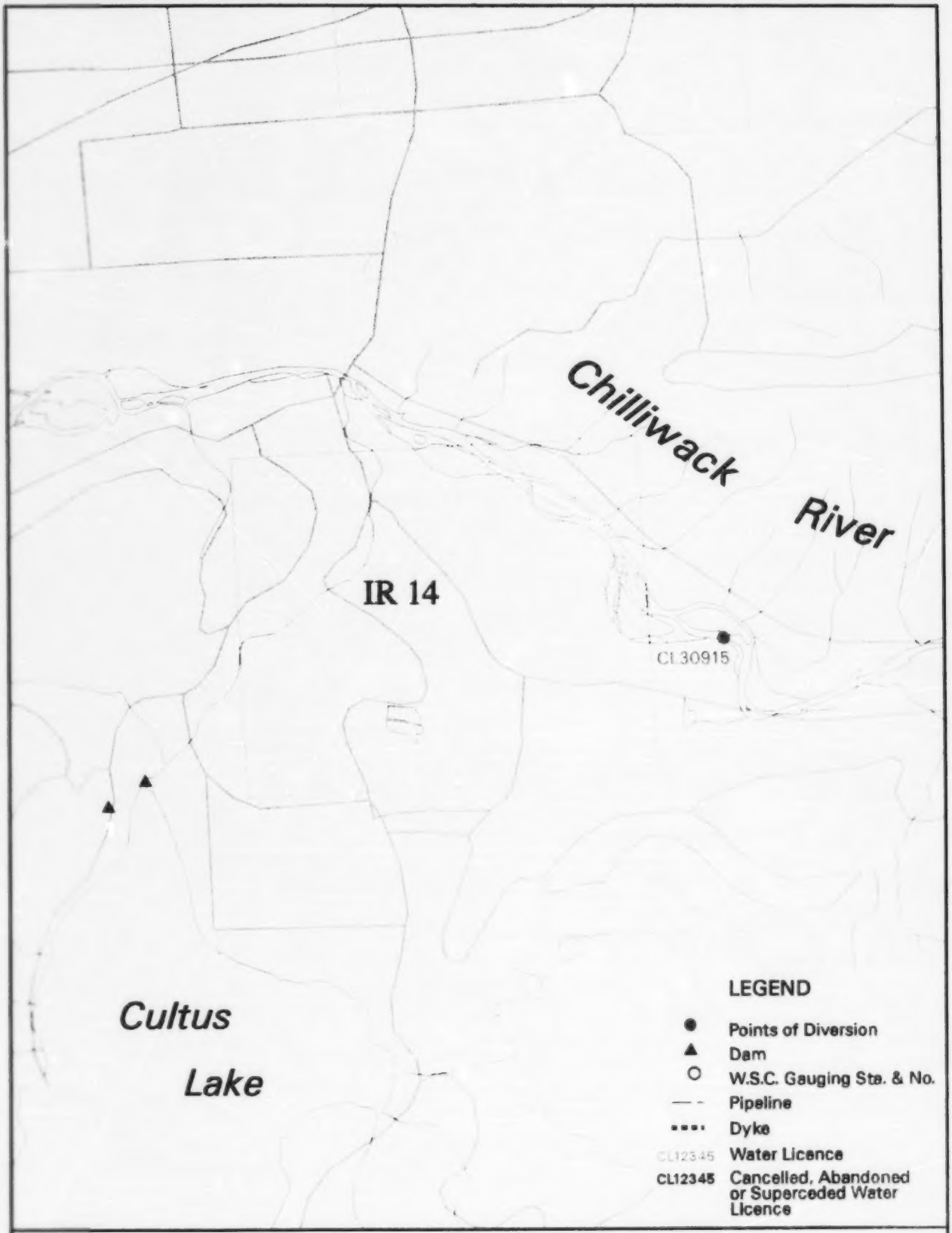
BCGS Map Area	Well No.	Well Tag No.	Lot No.	Plan No.	Blk No.	TP	SC	RG	D.L.	X	Y	Old Well No.	L.D.	Site Address	Date Constructed (day)	Well Depth (ft.)	Well Diam. (in.)	Drill Const. Method	Const. Method	Well Yield	Yld. Unt.	Depth to Water (ft.)	Depth to Bedrk (ft.)	Aquif Litho	Screen Interval (ft.)	O.W. Rpt	Chem Lab	Chem Fld	Chem Site No.
092H.001.3.3.1	001	0000000016601	2	25044		23	26			00 00 00	001	37	CULTUS LAKE RD	24-01-1977	94.0	8.0	016	UNK	150.0	GPM	13	UNK	UNC	77-89				
092H.001.3.3.2	001	0000000051798	6							00 00 00	002	37	RESERVE ROAD	12-01-1983	84.0	6.0	111	DRI	6.0	USGM	46	UNK	UNC	80-84				
092H.001.3.3.2	002	0000000054131				23	26			00 00 00	003	37	SOOWAHLIE INDIAN RES	09-10-1984	121.0	6.0	036	DRI	720.0	GPM	70	UNK	UNC	112-121				
092H.001.3.3.3	001	0000000035465								00 00 00	007	37		09-08-1976	104.0	0.0	140	DRI	1.0	GPM	40	4	BED					
092H.001.3.3.3	002	0000000043731	4	47950		23	1		820	00 00 00	013	37	VEDDER MTN RD	01-01-1985	305.0	6.0	036	DRI	2.5	USGM	40	5	BED					
092H.001.3.3.4	001	0000000016251				23	1			00 00 00	001	37		01-01-1960	101.0	6.0	140	DRI	6.0	GPM	55	UNK	UNC					
092H.001.3.3.4	002	0000000015242				23	1			00 00 00	003	37		01-01-1958	68.0	0.0	111	DRI	15.0	GPM	58	UNK	UNC					
092H.001.3.3.4	003	0000000013266				23	1			00 00 00	004	37	CULTUS LAKE RD	22-08-1975	101.0	6.0	016	UNK	35.0	GPM	57	UNK	UNC					
092H.001.3.3.4	004	0000000029055	10	2556		23	1			00 00 00	005	37		15-10-1971	200.0	6.0	016	UNK			UNK	22	BED					
092H.001.3.3.4	005	0000000028560	4	2556		23	1			00 00 00	006	37	45314 VEDDER MOUNTAI	01-08-1973	570.0	6.0	016	UNK	5.0	GPM	UNK	11	BED					
092H.001.3.3.4	006	0000000014328	3	4634		23	1			00 00 00	008	37	CULTUS LAKE RD	12-03-1976	86.5	6.0	053	GTH	9.0	GPM	53	UNK	UNC					
092H.001.3.3.4	007	0000000029263				23	1			00 00 00	009	37		10-11-1971	340.0	6.0	016	UNK			UNK	135	UNC					
092H.001.3.3.4	008	0000000050658		21		23	1			00 00 00	011	37	CULTUS LAKE RD	16-07-1982	705.0	0.0	016	UNK	6.0	GPM	183	3	BED					
092H.001.3.3.4	009	0000000051364	81	10281		23	1			00 00 00	012	37	CULTUS LAKE RD	27-11-1982	101.0	6.0	016	UNK			UNK	98	UNC					
092H.001.3.3.4	010	0000000051363	2	4634		23	1			00 00 00	014	37	CULTUS LK RD	27-11-1982	139.0	0.0	016	UNK	30.0	GPM	35	UNK	UNC					
092H.001.3.3.4	013	0000000054151	6	626		23	1			00 00 00	800	37	45150 VEDDER MTN.RD.	15-10-1984	152.0	6.0	016	DRI	100.0	GPM	52	UNK	UNC					
092H.001.3.3.4	011	0000000055780	14	46816		23	1			00 00 00	500	37	5020 SWEETZER RD.	18-03-1986	425.0	6.0	036	DRI					UNC					
092H.001.3.3.4	012	0000000001168	12	47564		23	1			00 00 00	600	37	45530-VEDDER RD	01-01-1901	67.0	0.6	036	DRI	20.0	GPM	16		UNC					

---------- END OF REPORT WELL4600 ----------

A REF. NO.	B RESERVE NAME & NO.	C BAND NAME	D WATER BODY	E TYPE OF WORKS	F LENGTH DYKE (KM)	G LENGTH B.P. (KM)	H CROWN WDTH. (M)	I APPROX. WATER SLOPE	J PROT'D. AREA (HA)	K DATE LAST CONST'D.	L CONST. FUNDED BY	M INSP-ECTED BY	N MAINTAINED BY
1	ASHNOLA 10	LOWER SIMILKAMEEN	SIMILKAMEEN R.	DYKE & B.P	0.40	1.20	?	?	60	1986	ARDSA	1.of D.	BAND
2	ATKYUCKS 15	SQUAKISH	SQUAKISH R.	DYKE	0.40	N/A	3.5	2:1	33	1977	B.C./KSH.	1.of D.	SQUAKISH DIST.
3	BARNSTON ISLAND 3	KATZIE	FRASER R.	DYKE	0.87	N/A	3.0	2:1	40.5	1950	FYDB	1.of D.	BRSH. I.D. DIST.
4	BELLA COOLA 1	BELLA COOLA	THORSEN CR.	DYKE	0.82	0.84	4.0	2:1	?	1985	BAND	?	BAND
5	BELLA COOLA 1	BELLA COOLA	TASTSQUAR CR.	DYKE & B.P	0.15	0.10	?	?	?	1974	BAND	?	BAND
6	CAPE MUDGE	CAPE MUDGE	SEA	SEAWALL	N/A	?	N/A	?	?	?	?	?	BAND
7	CHAWATHIL	HOPE	FRASER R.	B.P.	N/A	0.50	N/A	?	?	?	CPR	?	CPR
8	CHEAM 1	CHEAM	FRASER R.	DYKE	0.62	0.76	3.0	2.5:1	35.5	1974	FRJP/CKR	1.OF D.	CHILLIWACK DIST.
9	CHEHALIS 5	CHEHALIS	CHEHALIS R.	DYKE	0.44	N/A	4.0	2:1	691	1990	BAND	?	BAND
10	COQUITLAM 2	COQUITLAM	COQUITLAM R.	DYKE	0.30	N/A	?	?	70	?	BAND	?	BAND
11	COYICHAN 1	COYICHAN	COYICHAN/COLQUITZ RS.	DYKE	5.74	N/A	3.5	2:1	150	1985	ARDSA	1.of D.	BAND
12	DEADMAN'S CREEK	SKEETCHESTN	DEADMAN CR.	B.P.	N/A	?	N/A	?	800	1948	BAND	?	BAND
13	EAST SAANICH 2	TSAWOUT	SEA	SEAWALL	N/A	0.40	N/A	1.5:1	?	1985	BAND	?	BAND
14	ESQUIMALT 2	ESQUIMALT	SWUSWAP R./FORTUNE CR.	DYKE	?	N/A	?	?	340	?	BAND	?	BAND
15	FORT RUPERT 1	KWAKIUTL	SEA	SEAWALL	N/A	0.80	N/A	1.5:1	340	1974	BAND	?	BAND
16	GITANMAAX 1	GITANMAAX	SKEENA R.	GROYNE	N/A	?	N/A	N/A	?	?	?	?	BAND
17	GORDON RIVER 2	PACHENAHT	SAN JUAN R.	B.P.	N/A	0.50	N/A	2:1	?	1991*	BAND	?	BAND
18	HALFWAY 168	HALFWAY	HALFWAY R.	B.P.	N/A	0.10	N/A	?	?	1991*	BAND	?	BAND
19	KAMLOOPS	KAMLOOPS	SOUTH THOMPSON R.	DYKE	1.27	N/A	?	?	?	1972	B.C.-MYTS.	?	BAND
20	KATIT 1	OWEEKENO	WELMORY	DYKE	?	N/A	?	?	?	1990	BAND	?	BAND
21	KATZIE 1	KATZIE	FRASER R.	DYKE	0.60	N/A	3.0	2.5:1	31.5	1984	FRJP	1.of D.	PITT M'DOWS DIST.
22	KINCOLITH 14	KINCOLITH	NASS R.	CAUSEWAY	N/A	0.20	4.0	1.5:1	?	1990	BAND	?	BAND
23	KITAMAAT 2	KITAMAAT	YATHL R.	DYKE	0.55	N/A	3.5	2:1	10	1988	BAND.	?	BAND
24	KITWANGAK 1	GITWANGAK	SKEENA	B.P.	N/A	?	N/A	?	93	?	CKR	?	CKR
25	KITWILLUCKSILT 7	GITWINKSIHLKW	UNCLASED	CHAR. IMPS	N/A	N/A	N/A	N/A	32	1987	BAND	?	BAND
26	KWLEATH 4	HARTLEY BAY	SEA	SEAWALL	N/A	0.22	N/A	1.5:1	?	1977	BAND	?	BAND
27	LACHKALTSAP 9	LAKALZAP	GREENVILLE CR.	DYKE	1.40	N/A	4.0	1.5:1	800	1990	BAD/BC	?	BAND
28	LAKAHAHMEN 11	LAKAHMEN	WICONEN SLOUGH	DYKE	0.90	N/A	?	?	23	1949	FYDB	1.of D.	W.WICONEN I.DIST.
29	LOUIS CREEK 4	NORTH THOMPSON	N.THOMPSON/LOUIS CR.	B.P.	N/A	?	N/A	?	0.8	1984	BAND	?	BAND
30	NASSET 1	NASSET	SEA	SEAWALL	N/A	0.22	N/A	VERT.	?	1983	BAND	?	BAND
31	NATSOUI KLIN 2	NATSOUI	FRASER R.	DYKE	1.10	N/A	3.0	2.5:1	41.3	1974	FRJP	1.of D.	DIST.OF NATSOUI
32	MCMILLAN ISLAND 18	LANGLEY	FRASER R.	B.P.	N/A	0.45	N/A	?	121	?	BAND	?	BAND
33	MOUNT CURRIE 1,8,9,10	MOUNT CURRIE	BIRKENHEAD	DYKE	0.70	N/A	3.0	2:1	442	PRE-70	?	1.of D.	PEMBERTON D.DIST.
34	MUSQUEAM 2	MUSQUEAM	SEA/R.ASH FRASER R.	DYKE & B.P	0.55	0.40	?	?	27.3	?	BAND	?	BAND
35	NANAIMO RIVER 3	NANAIMO RIVER	NANAIMO R./SEA	DYKE	2.20	N/A	?	?	92	1934	BAND	?	BAND
36	NEQUATQUE 1	ANDERSON LAKE	GATES R./ANDERSON L.	DYKE	?	N/A	?	?	9	1966	MYTS/BCR	?	?
37	NESUCH 3	MOUNT CURRIE	LILLOOET R.	DYKE	0.20	N/A	3.0	2.5:1	295	1987	B.C./B.D.	1.of D.	PEMBERTON D. DIST.
38	NORTH THOMPSON 1	NORTH THOMPSON	NORTH THOMPSON R.	B.P.	N/A	0.50	N/A	?	250	?	BAND	?	BAND
39	PAPEKWATCHIN 4	LAKAHAHMEN	FRASER R.	DYKE	0.80	N/A	3.0	2.5:1	18.4	1988	FRJP	1.of D.	WICONEN IS.1.DIST.
40	PENTICTON	PENTICTON	OKANAGAN R/SHINGLE CR.	DYKE	?	N/A	?	?	530	1953	B.C./CAN.	1.of D.	PENTICTON
41	PENTLEDGE 2	CONDI	PORTLEDGE R.	B.P.	N/A	0.24	N/A	1.5:1	?	1972	BAND	?	BAND
42	PETERS 1	PETERS	FRASER	DYKE	0.25	N/A	?	?	125	1988	BAND	?	BAND
43	PETERS 2	PETERS	FRASER R.	B.P.	N/A	1.07	N/A	2:1	40	1988	BAND	?	BAND
44	PINCHIE 2	TL'AZT'EN NATION	STUART L./PINCHI R.	B.P.	N/A	0.10	N/A	2.5:1	30	1988	BAND	?	BAND
45	PORT SIMPSON 1	LAX KW'ALAAMS	SEA	CAUSEWAY	N/A	0.13	?	1:1	?	1990	BAND	?	BAND
46	QUAAOUT 1	LITTLE SHUSWAP	LITTLE R./ SHUSWAP L.	B.P.	N/A	0.13	N/A	?	?	1975	BAND	?	BAND
47	RUBY CREEK 2	SKAWAHLOOK	RUBY CREEK	DYKE	?	N/A	?	?	1.2	?	BAND	?	BAND
48	SALMON RIVER 1	SPALLUMCHEEN	SALMON R.	B.P.	N/A	0.19	N/A	1.5:1	?	1984	BAND	?	BAND
49	SCOWLITZ 1	SCOWLITZ 1	FRASER R./HARRISON R.	DYKE	2.90	N/A	3.0	2.5:1	33	1972	FRJP	1.of D.	KENT DIST.
50	SEABIRD ISLAND	SEABIRD ISLAND	FRASER R.	B.P.	N/A	1.90	N/A	2:1	166	1976/82	FRJP/BAND	1.of D.	KENT DIST./BAND
51	SEALCHEM 16	SQUAMISH	SQUAMISH R.	DYKE	0.60	N/A	3.0	2.5:1	4	1987	B.C./KSH.	1.of D.	SQUAMISH DIST.
52	SECHELT 2	SECHELT	SEA	B.P.	N/A	0.85	N/A	1.5:1	?	1984	BAND	?	BAND
53	SEYMOUR CREEK 2	SQUAMISH	SEYMOUR CR.	B.P.	N/A	?	N/A	?	?	?	LESEE	?	?
54	SKAWALOOK 1	SKAWALOOK	FRASER R.	B.P.	N/A	0.12	N/A	?	?	?	?	?	BAND
55	SKWAHA 10	LAKAHAHMEN	WICONEN SLOUGH	DYKE	2.10	N/A	3.0	2:1	23	1949	FYDB	1.of D.	WICONEN IS.1.DIST
56	SKEMELOSKBARKIN 1,7,9	LOWER SIMILKAMEEN	SIMILKAMEEN R.	DYKE & B.P	3.50	1.50	3.0	2:1	1100	1988	ARDSA	1.of D.	BAND
57	SKIDEGATE 1	SKIDEGATE	SEA	B.P.	N/A	0.10	N/A	?	?	1985	BAND	?	BAND
58	SKWAHA 10	SKWAH	FRASER R.	DYKE	4.20	N/A	3.0	2.5:1	400	1949	FYDB	1.of D.	WICONEN IS.1.DIST
59	SKWAH 3	SKWAH	FRASER R.	DYKE	2.50	N/A	3.0	2:1	4	1950	FYDB	1.of D.	CHILLIWACK DIST.
60	SKWAY 4,5	SKWAH	FRASER R.	DYKE	0	N/A	0	0	0	1950	FYDB	1.OF D.	?
61	SLOSH 1	SETON LAKE	SETON R./SETON L.	B.P.	N/A	0.06	N/A	1.5-2:1	?	1990	BAND	?	?
62	SOOKAMLIE 14	SOOKAMLIE	CHILLIWACK R.	DYKE	2.01	N/A	3.7	2:1	?	1990	BAND	?	BAND
63	SWITSEMALPH 8	ADAMS LAKE	SHUSWAP L./STYPUCH CR.	DYKE	?	N/A	?	?	?	?	LESEE	?	?
64	TSAWWASSEN	TSAWWASSEN	SEA	DYKE	2.50	N/A	3.0	2.5:1	273	1985	FRJP	1.of D.	CORP. OF DELTA
65	TSEATAH 2	CHEAM	FRASER R.	DYKE & B.P	2.60	0.70	3.0	2:1	92	1973	FRJP/BAND	1.of D.	KENT DIST./BAND
66	TSOLOQUATE 4	GVA-SALA-MAKVAK	SEA/TSOLOQUATE R.	B.P.	N/A	0.28	N/A	?	?	1971	BAND	?	BAND
67	VAIVAHUK 14	SQUAMISH	SQUAMISH R.	DYKE	0	N/A	0	0	0	1977	B.C./KSH.	1.OF D.	SQUAMISH DIST.
68	WHISPERING PINES 4	WHISPERING PINES	NORTH THOMPSON R.	DYKE	?	N/A	?	?	?	PRE-72	PREY.OWNER	?	?
69	ZAITSCHULLACH 9	LAKAHAHMEN	WICONEN SLOUGH	DYKE	0.70	N/A	3.0	2:1	20	1949	FYDB	1.of D.	WICONEN IS.1.DIST
				TOTALS	57.65	13.17							

DYKE CATEGORIES: A - 1:200 yr. Flood + 0.6 M Freeboard
B - 1:200 yr. Flood, no Freeboard
C - Less than 1:200 yr. Flood or unknown

* -See Column Y COMMENTS



SOOWAHLIE FIRST NATION

Scale: 1 : 30,000

Ministry of Environment, Lands & Parks | Date: February 2000 | Environment & Lands Division